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1 acknowledge the duty to disclose information that is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (reprinted below):

## § 1.56 Duty to disclose information material to patentability.

- A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of cand and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of any claim remaining under consideration in the application need not be submitted if the information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - (1) Each inventor named in the application:
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby appoint the following attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith:

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Kowalchyk, Katherine M.	Reg. No. 36,848	Xu, Min S.	Reg. No. 39,536
Lacy, Paul E.	Reg. No. 38,946	Zeuli, Anthony R.	Reg. No. 45,255
Larson, James A.	Reg. No. 40,443		
	-		

I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Merchant & Gould P.C. to the contrary.

Please direct all correspondence in this case to Merchant & Gould P.C. at the address indicated below:

Merchant & Gould P.C. P.O. Box 2903 Minneapolis, MN 55402-0903



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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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gu	ature of Inventor 3	61: Wz		Date:	many 22, 200/
	Full Name	Family Name	First Given Name		Second Given Name
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	n in the contract of	317-1; Deemyung-dong, Nam-gu			
eni	sture of Inventor 2			Date:	·
12		2 63		Ja	Second Given Name
Hill H	Full Name	Family Name	First Given Name		Second Given Name
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		317-1, Daemyung-dong, Nam-gu			
	sture of Inventor 2		`	Date:	ANUARY 22,200
	Full Name	Family Name	First Given Name	~	Second Given Name
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	Address	1370, Sankcok-dong, Book-gu	Daegu-shi		KOREA
	sture of Inventor 2		L_= 9 °	Date:	Laine
5"	Valley C	61 21 Ch			mmy >2,200
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## **SMALL BUSINESS**

# VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 C.F.R. 1.9(f)) - SMALL BUSINESS CONCERN

I hereby declare	that I am					
a) [] b) []	the owner of t	he small business he small business	concern identified beli concern empowered to	ow: o act on behalf o	of the concern identifie	ed below:
+*	NAME OF C		BIOGENIA CO., I Owner Venture Blo 1661, Bongchun-do Scoul, KOREA	.TD. lg. Ste 409		oc serve.
35. United States For purposes of the perconcern of the perconcerns are affiliated.	11-805, and reprict Code, in that the his statement, ( prictions employed liates of each of	oduced in 37 C.F.) ne number of empl 1) the number of e 1 on a full-time, pa	oyees of the concern, mployees of the busin rt-time or temporary t irectly or indirectly, or	s of paying redu including those ess concern is the easis during each	ced fees under Section of its affiliates, does not average over the properties of the pay periods of	ned in 141(a) and (b) of Fitle not exceed 500 persons. evious fiscal year of the fithe fiscal year, and (2) to control the other, or a
With regard to the AMPLIFICATIO SEOK; LEE, JAI	N REP 13E12	tied A METHOD REPEATED SEOI	FOR DETECTING M	YCOBACTER	IUM TUBERCULOS	oncern identified above IS BY PCR WANG; LEE, JONG-
	provisional app non-provisiona	n filed herewith. dication serial no application serial , issued	, filed I no	, filed		
ights to the inverqualify as an inde uniter 37 C.F.R. I	ition is listed be pendent invento	clow* and no rights or under 37 C.F.R.	ness concern are not e s to the invention are to 1.9(c) or by any concurred are 37 C.F.R. 1.9(c)	neld by any pers ern which would	on, other than the inve	entor, who could not
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#### **INDEPENDENT INVENTOR(S)**

### VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 C.F.R. 1.9(f)) - INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 C F.R. 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled A METHOD FOR DETECTING MYCOBACTERIUM TUBERCULOSIS BY PCR AMPLIFICATION REP 13E12 REPEATED SEQUENCE described in

	b) [ c) 🗵	provisional a non-provisio	tion filed herewith. pplication serial no, file nal application serial no , issued	d, filed	
	convey or lices under 37 C.F.F	nse, any rights R. 1.9(c) if that	conveyed or licensed and am unifing the invention to any person was person has made the invention F.R. 1.9(d) or a nonprofit organ	who could not be classified as , or to any concern which wou	an independent inventor ld not qualify as a small
			nization to which I have assign n, grant, convey, or license any		
			such person, concern, or organizations		
5	NAME	BIOGENIA (	CO., LTD.,		
	ADDRESS	Owner:Ventu	re Bldg. Ste 409, 1661, Bongch	iun-dong, Kwanack-gu, Seoul	, KOREA
=		a) 🔲 INDIVI		NESS CONCERN c) NONI	PROFIT ORGANIZATION
	NAME	LEE, Tae-Yo	on .	0.137.131.2	day Name Day
-	ADDRESS		TE 512, Yeungnam University	Col. Med., 317-1, Daemyung	-dong, Nam-gu, Daegu-
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1	entitlement to maintenance for I hereby declar information an willful false st	small entity sta ce due after the re that all states ad belief are be atements and the	e, in this application or patent, a tus prior to paying, or at the tin date on which status as a small ments made herein of my own a lieved to be true; and further the ite like so made are punishable	ne of paying, the earliest of the lentity is no longer appropriate conviledge are true and that all at these statements were made by fine or imprisonment, or both the content of the cont	e issue fee or any te. (37 C.F.R. 1.27(g)(2))  I statements made on with the knowledge that oth under Section 1001 of
	Title 18 of the	United States	Code, and that such willful false	e statements may jeopardize tl	he validity of the application,
	any patent issu	ting thereof, or	any patent to which this verific	ed statement is directed.	
		-	VIM Sung Vunna	LEE, Jong-Seok	LEE, Jai-Youl
	NAME OF IN	VENTOR	KIM, Sung-Kwang NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR
	MANUE OF RE		-1	1 34	
			735626	0/ 3/3	Signature of Inventor
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23552 PATENT TRADEMARK OFFICE

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#### INDEPENDENT INVENTOR(S)

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY STATUS (37 C.F.R. 1.9(f)) - INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 C.F.R. 1.9(c) for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled A METHOD FOR DETECTING MYCOBACTERIUM TUBERCULOSIS BY PCR AMPLIFICATION REP 13E12 REPEATED SEQUENCE described in

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	b) [ c) 🔀	provisional non-provisi	ation filed herewith.  application serial no, formal application serial no, , issued	iled, filed,			
	I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 C.F.R. 1.9(c) if that person has made the invention, or to any concern which would not qualify as a small business concern under 37 C.F.R. 1.9(d) or a nonprofit organization under 37 C.F.R. 1.9(e).						
July July		ach person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under obligation inder contract or law to assign, grant, convey, or license any rights in the invention is listed below:					
		a) ☐ no b) ⊠ pe	such person, concern, or organ sons, concerns or organization	nization as listed below*			
i i	NAME	BIOGENIA	CO. LTD.				
	ADDRESS	Owner Vent	ire Bldg. Ste 409, 1661, Bong	chun-dong, Kwanack-gu, Seou SINESS CONCERN c) NON	II, KOREA IPROFIT ORGANIZATION		
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He that and the the	I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 C.F.R. 1.27(g)(2))						
	I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereof, or any patent to which this verified statement is directed.						
	LEE, Tae-You	on.					
	NAME OF IN		NAME OF INVENTOR	NAME OF INVENTOR	NAME OF INVENTOR		
-	Signature of Ir	ventor	Signature of Inventor	Signature of Inventor	Signature of Inventor		
-	Date		Date	Date	Date		
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